

BASF Aktiengesellschaft

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**Abstract**

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The invention relates to a reactor (1) having a supply of a reaction mixture via channels (2) of a burner block (3) in a reaction chamber (4), a high temperature reaction having a short residence time taking place in the reaction chamber (4) and the reaction mixture then being rapidly cooled in a quench area (5). In the reactor  
10 (1), all surfaces delineating the reaction chamber (4) are formed from a fire-resistant ceramic having an alumina content of at least 80% by weight, which is stable at reaction temperature.

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(Figure 1)